









Public Service Committee Meeting      Commission Chamber- 2/27/2018- 1:00 PM

## **PUBLIC SERVICES**

1. New Application: A.N. 18-09: A request by Suzann M. Mischel  [Attachments](#)  
for an on premise consumption Liquor, Beer & Wine License to be used in connection with R & R Bar and Grill located at 2706 Gordon Highway. There will be Dance. District 4. Super District 9.
2. Report from the Administrator regarding the assessment of  [Attachments](#)  
Bernie Ward Community Center and Jones Pool. **(Requested by Commissioner Marion Williams - deferred from February 13 Public Services Committee)**
3. Update from the Administrator on the priority item list of safety  [Attachments](#)  
items that must be addressed at the Bernie Ward Community Center and a preliminary cost estimate for the work. **(Referred from the February 20 Commission meeting)**
4. Motion to approve the minutes of the Public Services  [Attachments](#)  
Committee held on February 13, 2018.
5. Provide information regarding Code Enforcement matters as  [Attachments](#)  
requested at the January 9th Public Services Committee meeting.
6. Resolution - Supporting and Encouraging the Department of  [Attachments](#)  
Energy/National Nuclear Security Administration's consideration of the Savannah River Site to locate the Plutonium Pit Production Mission. **(Requested by Commissioner Sean Frantom)**



**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Alcohol Application**

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**Department:** Planning & Development

**Presenter:** Julietta H. Walton

**Caption:** New Application: A.N. 18-09: A request by Suzann M. Mischel for an on premise consumption Liquor, Beer & Wine License to be used in connection with R & R Bar and Grill located at 2706 Gordon Highway. There will be Dance. District 4. Super District 9.

**Background:** This is a New Applicant.

**Analysis:** The applicant meets the requirements of the City of Augusta's Alcohol Ordinance.

**Financial Impact:** The applicant will pay a fee of \$4,585.00.

**Alternatives:**

**Recommendation:** The Planning & Development Office approved the application subject to additional information not contradicting the applicant's statements. The Sheriff's Office approved the application subject to additional information not contradicting applicant's statements.

**Funds are Available  
in the Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

**Law  
Administrator  
Clerk of Commission**

Cover Memo

Item # 1

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Augusta-Richmond County  
1815 Marvin Griffin Road  
Augusta, GA 30906

### ALCOHOL BEVERAGE APPLICATION

Alcohol Number \_\_\_\_\_ Year 2018 Alcohol Account Number 2018-238

1. Name of Business R & R Bar and Grill
2. Business Address 2706 Gordon Highway
3. City Augusta State Georgia Zip 30909
4. Business Phone (\_\_\_\_) \_\_\_\_\_ Home Phone (706) \_\_\_\_\_
5. Applicant Name and Address: Suzann M. Mischel  
619 Dunloe Cir. Evans, GA 30809

6. Applicant Social Security # \_\_\_\_\_ D.O.B. \_\_\_\_\_
7. If Application is a transfer, list previous Applicant: \_\_\_\_\_
8. Business Location: Map & Parcel \_\_\_\_\_ Zoning \_\_\_\_\_
9. Location Manager(s) \_\_\_\_\_

10. Is Applicant an American Citizen or Alien lawfully admitted for permanent residency?  
(x) Yes ( ) No

### OWNERSHIP INFORMATION

11. Corporation (if applicable): Date Chartered: 06/09/2017
12. Mailing Address:  
Name of Business R & R Bar and Grill  
Attention Suzann M. Mischel  
Address 2706 Gordon Highway  
City/State/Zip Augusta, GA 30909
13. Ownership Type: (x) Corporation ( ) Partnership ( ) Individual
14. Corporate Name: R & R Bar and Grill, LLC  
List name and other required information for each person having interest in this business.

Name	Position	SSNO #	Address	Interest
Suzann M. Mischel	Member		619 Dunloe Cir. Evans, GA 30809	50 %
Todd P. Rooney	Member		968 Old Whiskey Rd Barnwell, SC 29812	50 %

15. What type of business will you operate in this location?  
(x) Restaurant (x) Lounge ( ) Convenience Store  
( ) Package Store ( ) Other: \_\_\_\_\_

License Information	Liquor	Beer	Wine	Dance	Sunday Sales
Retail Package Dealer					
Consumption on Premises	X	X	X	X	
Wholesale					

Total License Fee: \$ \_\_\_\_\_  
Prorated License Fee: (After July 1 ONLY) \$ \_\_\_\_\_

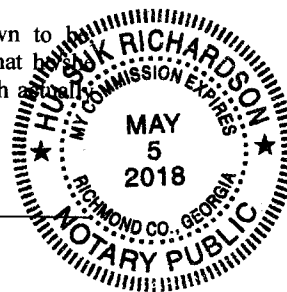
16. Have you ever applied for an Alcohol Beverage License before: \_\_\_\_\_  
If so, give year of application and its disposition: \_\_\_\_\_
17. Are you familiar with Georgia and Augusta-Richmond County laws regarding the sale of alcoholic beverages? (x) Yes ( ) No If so, please initial. SM



18. Attach a passport-size photograph (front view) taken within two years. Write name on back of the dealer submitting the license application.
19. Has any liquor business in which you hold, or have held, any financial interest, or are employed, or have been employed, ever been cited for any violation of the rules and regulations of Richmond County or the State Revenue Commission relating to the sale and distribution of distilled spirits? ( ) Yes (X) No  
If yes, give full details: \_\_\_\_\_
20. Have you ever been arrested, or held by Federal, State, or other law-enforcement authorities, for any violation of any Federal, State, County or Municipal law, regulation or ordinance? (Do not include traffic violations, with the exception of any offenses pertaining to alcohol or drugs.) All other charges must be included, even if they are dismissed. ( ) Yes (X) No  
If yes, give reason charged or held, date and place where charged and its disposition. \_\_\_\_\_
21. List owner or owners of building and property.  
R & R Bar and Grill, LLC
22. List the name and other required information for each person, firm or corporation having any interest in the business.  
Suzann M. Mischel 50 % . Todd P. Rooney 50%
23. If a new application, attach a surveyor's plat and state the straight line distance from the property line of school, church, library, or public recreation area to the wall of the building where alcohol beverages are sold.  
A.) Church \_\_\_\_\_ C.) School \_\_\_\_\_  
B.) Library \_\_\_\_\_ D.) Public Recreation \_\_\_\_\_
24. State of Georgia, Augusta-Richmond County, I, \_\_\_\_\_  
Do solemnly swear, subject to the penalties of false swearing, that the statements and answers made by me as the applicant in the forgoing alcoholic beverage application are true.  
Suzann M. Mischel  
Applicant Signature
25. I hereby certify that Suzann M. Mischel is personally known to me that he/she signed his/her name to the foregoing application stating to me that he/she knew and understood all statements and answers made herein, and, under oath administered by me, has sworn that said statements and answers are true.  
This 19 day of Jan., in the year 2018.

Applicant Signature

Notary Public



#### FOR OFFICE USE ONLY

Department Recommendation	Approve	Deny	Comments
Alcohol Inspector			
Sheriff			
Fire Inspector			

The Board of Commissioners on the \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_  
(Approved, Disapproved) the forgoing application.

Administrator

Date

**PLANNING & DEVELOPMENT DEPARTMENT  
STAFF REPORT**

**Case Number:** A.N. 18-09

**Application Type:** On Premise Consumption Liquor, Beer, Wine & Dance

**Business Name:** R & R Bar and Grill

**Hearing Date:** February 27, 2018

**Report Prepared By:** Julietta Walton, Business Compliance Officer II

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**Applicant:** *Suzann M. Mischel*

**Property Owner:** GA Lounge LLC

**Address of Property:** 2706 Gordon Highway

**Tax Parcel #:** 080-0-003-00-0

**Commission District:** 4 **Super District:** 9

**Background:** This is an Existing Location

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**ANALYSIS:** Location restrictions: zoning and proximity to churches, libraries, schools and public recreation areas.

- **Zoning:** B-2 (General Business)
- **Distance Requirements:** The proposed location for selling consumption on premise Liquor, Beer, & Wine meets the minimum distance requirements to churches, schools, libraries and public recreation areas.

**ADDITIONAL CONSIDERATIONS:**

- **Reputation, character.** The applicant's reputation, character, trade and business associations or past business, ventures, mental and physical capacity to conduct business.
- **Previous violations of liquor laws.** If the applicant is a previous holder of a license to sell alcoholic liquors, whether or not he has violated any laws, regulations or ordinance relating to such business.
- **Manner of conducting prior liquor business.** If the applicant is a previous holder of a license to sell alcoholic liquors, the manner in which he conducted the business thereunder especially as to the necessity for unusual police observation and inspection in order to prevent the violation of any law, regulation or ordinance relating to such business.

- **Location.** The location for which the license is sought, as to traffic congestion, general character of neighborhood, and the effect such an establishment would have on the adjacent surrounding property values.
  - **The proposed location is an Existing Location, surrounded by other commercial uses.**
- **Number of licenses in a trading area.** The number of licenses already granted for similar business in the trading area of the place for which the license is sought.
- **Dancing.** If dancing is to be permitted upon the premise for which the license is sought and the applicant has previously permitted dancing upon the premises controlled or supervised by him, the manner in which he controlled or supervised such dancing to prevent any violation of any law, regulation or ordinance.
- **Previous revocation of license.** If the applicant is a person, whose license issued under the police powers of any governing authority has been previously suspended or revoked or who has previously had an alcoholic beverages licenses suspended or revoked.
- **Payment of taxes.** If the applicant and business are not delinquent in the payment of any local taxes.
- **Congregation of minors.** Any circumstances, which may cause minors to congregate in the vicinity of the proposed location, even if the location meets the distance requirement under section 6-2-64 (b) herein.
  - **The proposed location has been a Bar/Pub for over 30 years, for admittance of 21 years of age and above.**
- **Prior incidents.** Evidence that a substantial number of incidents requiring police intervention have occurred within a square city block of the proposed location during the twelve (12) months immediately preceding the date of application.
  - **The previous owner has a criminal charge with a felony pending, but surrendered his license before appearing before the Commission for revocation.**
- **Previous Denial or Revocation.** The denial of an application or revocation of a license, occurring within the preceding twelve (12) months, which was based on the qualifications of the proposed location.

**FINANCIAL IMPACT:** The applicant will pay a fee of \$4,585.00.

**RECOMMENDATION:**

The Planning & Development Office approved the application subject to additional information not contradicting the applicant's statements on application and further review.

(The Sheriff's Office approved the application subject to additional information not contradicting applicant's statements.)

**Note:** The staff report includes the information available approximately two weeks prior to the Public Services Committee meeting. It represents an evaluation of the facts presented by the applicant, research done by the staff, and consideration of the relevant factors in the Comprehensive Zoning Ordinance and the Alcohol Ordinance of Augusta, Georgia. New facts may emerge and staff reserves the right to make an oral recommendation at the hearing based on all the information available at that time.



**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Bernie Ward Community Center**

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**Department:**

**Presenter:** Commissioner Marion Williams

**Caption:** Report from the Administrator regarding the assessment of Bernie Ward Community Center and Jones Pool. **(Requested by Commissioner Marion Williams - deferred from February 13 Public Services Committee)**

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are Available  
in the Following  
Accounts:**

**REVIEWED AND APPROVED BY:**



**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Bernie Ward Community Center Assessment**

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**Department:** Clerk of Commission

**Presenter:**

**Caption:** Update from the Administrator on the priority item list of safety items that must be addressed at the Bernie Ward Community Center and a preliminary cost estimate for the work. **(Referred from the February 20 Commission meeting)**

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are Available  
in the Following  
Accounts:**

**REVIEWED AND APPROVED BY:**





**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Minutes**

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**Department:** Clerk of Commission

**Presenter:**

**Caption:** Motion to approve the minutes of the Public Services Committee held on February 13, 2018.

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are Available  
in the Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

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Public Service Committee Meeting Commission Chamber - 2/13/2018

**ATTENDANCE:**

Present: Hons. Guilfoyle, Chairman; Fennoy, Vice Chairman; Davis and M. Williams, members.

Absent: Hon. Hardie Davis, Jr., Mayor.

**PUBLIC SERVICES**

1. New Location: A.N. 18-03: A request by James Edward Miller for a retail package Beer & Wine License to be used in connection with Circle K Store #203271 located at 3947 Harper Franklin Blvd. District 3. Super District 10. **Item Action:** Approved

**Motions**

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Marion Williams	Commissioner Mary Davis	Passes

2. New Ownership Application: A.N. 18-04: A request by Sumit K. Patel for a retail package Beer & Wine License to be used in connection with VK Foodmart, LLC located at 2940 Inwood Drive. (District 5 - Super District 9) **Item Action:** Approved

**Motions**

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Marion Williams	Commissioner Mary Davis	Passes

3. New Ownership Application: A.N. 18-05: A request by Amelia D. Legutki for a retail package Beer & Wine License to be used in connection with Walgreen **Item Action:**

Item # 4

d/b/a Riteaid #11831 located at 2501 Tobacco Rd. District 4. Super District 9. **Approved**

### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner William Fennoy	Commissioner Mary Davis	Passes

4. New Ownership Application: A.N. 18-06: A request by Amelia D. Legutki for a retail package Beer & Wine License for Walgreen d/b/a Riteaid #11834 located at 2803 Wrightsboro Rd. Suite 17. District 3. Super District 10. **Item Action: Approved**

### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner William Fennoy	Commissioner Mary Davis	Passes

5. New Ownership Application: A.N. 18-07: A request by Amelia D. Legutki for a retail package Beer & Wine License to be used in connection with Walgreen d/b/a Riteaid #11832 located at 1503 Walton Way. District 1. Super district 9. **Item Action: Approved**

### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner William Fennoy	Commissioner Mary Davis	Passes

6. New Ownership Application: A.N. 18-08: A request by Amelia D. Legutki for a retail package Beer & Wine License to used in connection with Walgreen d/b/a Riteaid #11836 located at 3650 Wheeler Rd. District 3. Super District 10. **Item Action: Approved**

### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
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Item # 4

Approve	Motion to approve. Motion Passes 4-0.	Commissioner William Fennoy	Commissioner Mary Davis	Passes
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7. Discuss Bernie Ward Community Center and Jones Pool. **(Requested by Commissioner Marion Williams)** **Item Action:**  
Rescheduled

#### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Defer	Motion to approve referring this back to the committee in two weeks after the Administrator has an assessment done of the facility. Motion Passes 4-0.	Commissioner William Fennoy	Commissioner Mary Davis	Passes

8. Motion to approve award of RFP 17-278, Dyess Park Improvement Design Services, to POND & Co. for engineering and design professional services for \$69,650. **Item Action:**  
Approved

#### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

9. Motion to approve award of RFP 17-277, Fleming Park Improvement Design Services, to Johnson, Laschober & Associates, P.C. for engineering and design professional services for \$98,040. **Item Action:**  
Approved

#### Motions

Motion Type	Motion Text	Made By	Seconded By	Motion Result
Approve	Motion to approve. Motion Passes	Commissioner Mary Davis	Commissioner William Fennoy	Passes

4-0.

10. Motion to approve award of RFP 17-276, Jamestown Park Improvement Design Services, to W. K. Dickson & Co. for engineering and design professional services for \$42,000. **Item Action:**  
Approved

**Motions**

<b>Motion Type</b>	<b>Motion Text</b>	<b>Made By</b>	<b>Seconded By</b>	<b>Motion Result</b>
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

11. Motion to approve award of RFP 17-279, Lake Olmstead Park Improvement Design Services, to 2 KM Architects, Inc. for engineering and design professional services for \$145,000. **Item Action:**  
Approved

**Motions**

<b>Motion Type</b>	<b>Motion Text</b>	<b>Made By</b>	<b>Seconded By</b>	<b>Motion Result</b>
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

12. Motion to approve award of RFP 17-298, Lombard Mill Pond Preserve Trail Improvement Design Services to POND & Co. for engineering and design professional services for \$45,580. **Item Action:**  
Approved

**Motions**

<b>Motion Type</b>	<b>Motion Text</b>	<b>Made By</b>	<b>Seconded By</b>	<b>Motion Result</b>
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

13. Consider request from Mr. Cantrell Brown regarding the use of the May Park Gym for at-risk youth basketball league. **Item Action:**  
Approved

**Motions**

<b>Motion Type</b>	<b>Motion Text</b>	<b>Made By</b>	<b>Seconded By</b>	<b>Motion Result</b>
Delete	Motion to delete this item from the agenda. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

14. Motion to approve the minutes of the Public Services Committee held on January 30, 2018.
- Item Action:**  
Approved

**Motions**

<b>Motion Type</b>	<b>Motion Text</b>	<b>Made By</b>	<b>Seconded By</b>	<b>Motion Result</b>
Approve	Motion to approve. Motion Passes 4-0.	Commissioner Mary Davis	Commissioner William Fennoy	Passes

[www.augustaga.gov](http://www.augustaga.gov)



**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Requested information**

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**Department:** Planning & Development

**Presenter:** Terrence Wynder

**Caption:** Provide information regarding Code Enforcement matters as requested at the January 9th Public Services Committee meeting.

**Background:** At the January 9th Public Services Committee meeting Commissioner Marion Williams placed on the agenda three items relating to Code Enforcement: burned-out abandoned structures, blighted property at the old tag office and auto repair / mechanic shops. During the agenda item discussions additional Code Enforcement questions were posed by other Commissioners. Planning & Development / Code Enforcement was directed to provide the requested information at the Public Services Committee meeting in thirty days..... The requested information is provided in the attachments and will be presented at the February 27, 2018 meeting.

**Analysis:** Attached Information.

**Financial Impact:** N/A

**Alternatives:** N/A

**Recommendation:** N/A

**Funds are Available in the Following Accounts:** N/A

**REVIEWED AND APPROVED BY:**

Cover Memo

Item # 5

**Finance.**  
**Law.**  
**Administrator.**  
**Clerk of Commission**

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## Planning and Development Department

**Melanie Wilson,  
Director**

### Information Requested at the January 9<sup>th</sup> Public Services Committee Meeting

- **How can the city remove structures that have been burned to the ground without going through the Nuisance and Abatement Procedure?**
  - After due process if given to the owner, the City of Augusta would be able to remove the remains of a burned out structure only if there is the foundation/concrete slab. According to the Environmental Protection Division (EPD), an asbestos survey would still be required, as would notification and having a qualified person on-site during the demolition.
- **Burned Structure on Carrie Street.**
  - Added to Public Officer Hearing for March 21<sup>st</sup>, 2018
- **Pallet business at 1150 Fifth Street on State Property.**
  - The State Fire Marshal and Augusta Fire Department made an inspection of the site and will provide an inspection report. Upon receiving an approval from the Fire Department, the operator will apply for a Business License.
- **Progress made within the last few years as it relates to demolition activity and what is projected in the years to come.**
  - Demolitions Completed as a result of Nuisance and Abatement: 2015 (35), 2016 (136), 2017 (53)
  - Total properties awaiting court: 235
  - Total properties with demolition orders: 195
  - Demolitions projected in 2018: 30-35
  - Court orders projected in 2018: 120

There are four Nuisance Abatement hearings scheduled in 2018.

- **Laws or Ordinance that hinder Code Enforcement in performing duties.**
  - Code Enforcement is required to give due process before enforcement action can be taken. This may prolong the enforcement process.



**Public Service Committee Meeting  
2/27/2018 1:00 PM  
Resolution Plutonium Pit Production Mission**

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**Department:**

**Presenter:**

**Caption:** Resolution - Supporting and Encouraging the Department of Energy/National Nuclear Security Administration's consideration of the Savannah River Site to locate the Plutonium Pit Production Mission. **(Requested by Commissioner Sean Frantom)**

**Background:**

**Analysis:**

**Financial Impact:**

**Alternatives:**

**Recommendation:**

**Funds are Available  
in the Following  
Accounts:**

**REVIEWED AND APPROVED BY:**

Sponsor(s) :  
 Council District Representative :  
 Committee Referral :  
 Committee Consideration Date :  
 Committee Recommendation :  
 Effective Date :

## RESOLUTION NO.

### COUNCIL ADMINISTRATOR FORM OF GOVERNMENT FOR AIKEN COUNTY

(Supporting and Encouraging the Department of Energy/National Nuclear Security Administration's Consideration of the Savannah River Site to Locate the Plutonium Pit Production Mission.)

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#### WHEREAS:

1. Aiken County has long supported the missions of the Savannah River Site (SRS) and the role SRS has played, and continues to play, in our nation's national security; and
2. SRS is perfectly positioned to support many long-term missions such as the Mixed-Oxide Fuel Fabrication Facility (MFFF) and the Plutonium Pit Production mission while safely treating and disposing of the site's legacy waste, a mission that must continue; and
3. SRS has a long record of safety and environmental protection, a skilled workforce with hands-on experience in dealing with large-scale plutonium operations, an excellent security posture and a large land mass to serve as a buffer; and
4. SRS is home to the Savannah River National Laboratory that has a successful history of directly supporting large-scale plutonium operations and working with design laboratories on tritium research and development, a model that can be used as the new Pit Production mission becomes responsible for plutonium research and development activities; and
5. Aiken County Council believes the Pit Production mission should be brought to SRS, not as a replacement for the MFFF, but in a complementary role to that facility, and believes SRS is uniquely capable of handling both of those important national defense missions; and,
6. Aiken County Council recognizes that the location of the Pit Production mission at SRS would increase shipments of plutonium to our community, while potentially providing a disposition pathway for material already stored at SRS; and,
7. If selected for this mission, the Aiken County Council requests assurances from the Department of Energy/National Nuclear Security Administration that the facility will be built and that any waste generated by the operation, or from other missions at SRS, will be safely removed and disposed of at an appropriate facility outside of South Carolina.

#### NOW THEREFORE BE IT RESOLVED BY THE AIKEN COUNTY COUNCIL THAT:

1. Aiken County Council hereby supports and encourages the Department of Energy/National Nuclear Security Administration's consideration of the Savannah River Site as the location for the Plutonium Pit Production mission.
2. Aiken County Council, because of the unique capabilities of SRS, continues its support for this and other long-term, sustainable missions for the Site and requests that the Department of Energy/National Nuclear Security Administration move forward with a decision and a funding request to Congress to locate the Plutonium Pit Production mission at SRS.

Adopted at the regular meeting of Aiken County Council on \_\_\_\_\_ Item # 6

ATTEST:

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Tamara Sullivan, Council Clerk

IMPACT STATEMENT:

SIGNED:

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Gary Bunker, Chairman

COUNCIL VOTE:

DRAFT

When separated from the Analysis of Alternatives Final Report, the two page Executive Summary may be handled as UNCLASSIFIED.

Department of Energy/National Nuclear Security Administration/Defense Programs | October 2017

## EXECUTIVE SUMMARY

The National Nuclear Security Agency (NNSA) requires a sustained production capacity of no fewer than 80 pits per year (ppy) by 2030. Since 1989, when the Rocky Flats Plant was closed, the nation has had little capability to manufacture new plutonium pits that can go into the stockpile, called War Reserve (WR) pits. A limited capability of 10 WR ppy was exercised at Los Alamos National Laboratory (LANL) in the early 2000s, but no WR pits have been produced since 2012. At this time, NNSA is developing and installing capability at LANL in Plutonium Facility (PF)-4 to produce 30 ppy by 2026. The Analysis of Alternatives (AoA) for meeting pit production requirements, completed in September 2017, assessed alternatives to close this identified mission gap in the NNSA's pit production capability. The AoA is a post Critical Decision (CD)-0, pre-CD-1 activity to identify a preferred alternative for conceptual design in preparation for the Deputy Secretary of Energy to make a program decision at CD-1.

The AoA analysis resulted in the identification of two preferred alternatives, with a recommendation to conduct engineering analyses and pre-conceptual design activities on both alternatives in support of conceptual design for CD-1. The refurbishment and repurposing of the Mixed-Oxide Fuel Fabrication Facility at Savannah River Site has the most favorable cost and schedule for achieving a sustained 80 WR ppy production rate, but introduces the qualitative risk of reconfiguring a partially completed facility for a new mission in a new location. The other recommended alternative, new construction of an 80 WR ppy facility at LANL, has the lowest qualitative siting risk, but less favorable cost and schedule, and introduces risk associated with new construction of hazard category (HC)-2 facility space that includes regulatory milestones historically difficult to navigate in early design (e.g., NQA-1 and NEPA). The identification of two preferred alternatives for more detailed engineering analysis and conceptual design has precedence within the department to be addressed outside of the AoA process.

The 80 WR ppy requirement was validated prior to the start of the AoA by the Nuclear Weapons Council based on pit aging and directed military requirements. The pit production requirement is an annual "at least" production rate derived from the delivery schedule for certified, life extended nuclear weapons to the Department of Defense (DOD). Consequently, a sustained production rate of 80 ppy must be achieved with high confidence. In the context of the AoA analysis, high confidence was defined as a greater than 90% probability of achieving the required throughput (9 out of every 10 production years, the facility is expected to produce at least 80 WR pits). This constraint differs significantly from the Plutonium Sustainment Program's 30 WR ppy annual production goal. The 30 WR ppy capability is an "on average" requirement, defined as a 50% confidence in the production throughput.

The AoA Team evaluated functional and process requirements for achieving the 80 WR ppy mission requirement. These requirements informed the development of equipment and processing space estimates, which were key components of the analytical conclusions and the cost estimate ranges produced by the AoA. In order to adequately develop the equipment and space estimates, the AoA team developed a stochastic discrete event simulation of the pit production process to project pit manufacturing throughput for a given equipment set. The final equipment set was developed by adjusting equipment as needed to remove production- and logistics-based bottlenecks to ensure an 80 WR ppy throughput at high confidence. Following verification and validation of the model and the resultant equipment set by the AoA team production experts, subject matter experts estimated space needs based on analysis of analogous projects. Space needs were developed for both HC-2 and non-HC-2 functions,

Final Report for the Plutonium Pit Production Analysis of Alternatives | Page 1

When separated from the Analysis of Alternatives Final Report, the two page Executive Summary may be handled as UNCLASSIFIED.

Item # 6

When separated from the Analysis of Alternatives Final Report, the two page Executive Summary may be handled as UNCLASSIFIED.

**Department of Energy/National Nuclear Security Administration/Defense Programs | October 2017**

using a best value approach by moving support functions to non-HC-2 space whenever possible. Two key outcomes resulted from the equipment and space analysis:

- First, the equipment set for 80 WR ppy does not fit in the modular layout envisioned at CD-0 for the initial modular building strategy proposal.
- Second, the difference between a 50 WR ppy equipment set and an 80 WR ppy equipment set is within the range of error and, therefore, did not have an appreciable effect on the determination of the preferred alternatives. 50 ppy capability was evaluated in the context of splitting production capacity by continuing to rely on PF-4 for 30 ppy and producing 50 in another facility.

The AoA Team assessed a range of options that included both building new and refurbishing existing facilities to achieve the required annual production rate while not interfering with the mission objectives for the Plutonium Sustainment program and other required plutonium missions. The AoA Team determined that the original modular building strategy as proposed at CD-0 is not a viable option for the 80 WR ppy production requirement. Three aspects of this strategy prevent it from meeting mission requirements:

- PF-4 is only capable of an estimated 30 ppy (on average) after planned upgrades.
- Renovation of existing processing areas within PF-4 makes the 30 WR ppy sustainment capability unachievable by 2026 and presents schedule risks to other current missions not present in other options.
- An 80 WR ppy equipment set (at high confidence), requires over three times more HC-2 processing space than provided by two 5,000 square foot modules.

Although the modular building strategy envisioned at CD-0 utilizing PF-4 does not meet the functional and process requirements for an 80 WR ppy production, after a new 80 WR ppy capability is established, PF-4 can return to the research and development mission for which it was built.

A key finding of this AoA was the high schedule risk for all alternatives. There are two types of schedule risk, risk associated with the complexity of the schedule (complexity) and risk associated with the ability to execute the schedule as envisioned (executability). Complexity risk is related to the difficulty associated with design and procurement of processing equipment and the design and construction of a HC-2 facility. Complexity risk is reflected in the schedule analysis, and compounds with a phased approach to design and construction. Executability risk is related to resources, efficiency, and personnel. Executability risk is reflected in the cost estimating section. Although the complexity analysis indicated a 2030 schedule is achievable under ideal circumstances, the associated cost analysis demonstrated that executability risk would delay achievement of 80 WR ppy to 2033 at the earliest for any alternative.

Based on the AoA analyses, the Program Secretarial Officer has directed further refining each of the two preferred alternatives by executing an engineering analysis prior to conceptual design. The results of the engineering effort, coupled with the AoA analysis, will be used to inform a decision memorandum from the Program Secretarial Officer and enable pursuit of a full conceptual design package on a single preferred alternative.

When separated from the Analysis of Alternatives Final Report, the two page Executive Summary may be handled as UNCLASSIFIED.